



Product Evaluation

RC428 | 0115

Engineering Services Program

The following product has been evaluated for compliance with the wind loads specified in the International Residential Code (IRC) and the International Building Code (IBC).

This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.

This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code, and the Texas Engineering Practice Act.

For more information, contact TDI Engineering Services Program at (800) 248-6032.

Evaluation ID: RC-428

Effective Date: January 1, 2015

Re-evaluation Date: January 2019

Product Name: SL 100 Minimum 24-Gauge Standing Seam Metal Roofing Panels Installed Over a Plywood Deck

Manufacturer: River City Roofing & Remodeling, Inc.
602 Everest Street
San Antonio, TX 78209
(210) 828-2739

General Description:

The SL 100 metal roofing panel is minimum 24-gauge galvalume steel with an optional paint finish. The metal panels have a maximum coverage of 17". The metal roofing panels have a 1" tall snap lock standing seam rib. The metal roof panels conform to ASTM A792 AZ55 with a minimum yield strength of 50,000 psi. Panels must be formed within the panel rollformer specifications and tolerances.

Panel Rollformer: Schleichbach Quadro-Plus Rollformer
Metalforming, Inc.
100 International Drive
Peachtree City, GA 30269

Limitations:

- **Roof Deck:** Install the metal roofing panels over a minimum 15/32" plywood deck.
- **New Roof Deck Attachment:** The roof deck must meet or exceed the uplift requirements of the IRC or IBC. Install as required for resistance to wind loads.
- **Design Wind Pressures:** Table 1 specifies the design pressure uplift load resistance.
- **Roof Slope:** Do not install the panels on roofs with a roof slope less than 3:12.

Limitations (continued):

- **Installation Over an Existing Roof Covering:** If installing over an existing roof covering, limit to a maximum of one existing layer of composition shingles, wood shingles or shakes, built-up roofing, or roll roofing applied over an existing, solid roof deck of minimum 15/32" plywood. Note: Inspect the existing roof deck prior to the installation of the roof panels. The existing roof deck's condition must be acceptable to receive the metal roofing panels before installing the metal roofing panel. Installation does not require Underlayment.

Table 1: Attachment of Minimum 24-gauge SL 100 Metal Roofing Panels to Minimum 15/32" Plywood

Design Wind Pressure (psf)	Panel Clip	Panel Clip Fastener	Panel Clip Spacing
-67.3	18-Gauge 1000SNS	Two (2), No. 12-11 x 1" Type A	24" on center
-109.8	18-Gauge 1000SNS	Two (2), No. 12-11 x 1" Type A	12" on center
-131.0	18-Gauge 1000SNS	Two (2), No. 12-11 x 1" Type A	6" on center

Installation Instructions:

- **General:** Install the metal roofing panels in accordance with the manufacturer's recommended installation instructions and this evaluation report.
- **Panels:** Attach panels in accordance with the installation details in Table 1.
- **Underlayment:** Use a minimum of one layer of No. 30 (Type II) asphalt felt. Use underlayment that complies with one or more of the following: ASTM D 226, ASTM D 4869, or ASTM D 1970. Install the underlayment with 6" side laps and 3" end laps. Apply the underlayment with corrosion resistant fasteners in accordance with the manufacturer's installation instructions and the IRC or the IBC.
- **Attachment of Metal Roofing Panels to the Roof Deck:** Secure the metal roofing panels to the wood roof deck using minimum 18-gauge, 3-1/2" long, 1000SNS fixed clips with two (2), No. 12-11 x 1" long Pancake Type A screws. Use fasteners long enough to penetrate a minimum of 1/4" below the roof deck. Note: If installing the metal roofing panels over an existing roof covering, then increase the fastener length so the fasteners penetrate a minimum of 1/4" below the roof deck. Table 1 specifies the spacing of the clips.
- **Panel Ends and Edges:** As required by the manufacturer.
- **Trims, Closures, and Accessories:** Install components, such as the eave trim, rake trim, ridge trim, hip trim, and valley trim, as required by the manufacturer.

Note: Keep manufacturer's installation instructions at the job site during installation. Use corrosion resistant fasteners as specified in the IRC, IBC, and the Texas Revisions.